

Table 34
Cost Estimate Summary for the Selected Remedy

Component	Unit	Unit Cost	# of Units	Cost
CAPITAL COSTS				
A. Pre-Construction Activities				
Design	Percentage	6%		\$28,950,000
Regulatory Requirements, Legal, and Community Outreach	Percentage	2%		\$9,650,000
Contractor Work Plans and Submittals	LS	\$355,000	1	\$355,000
Pre-Construction Support Facility	Month	\$10,000	12	\$120,000
Pre-Construction Oversight	Month	\$48,000	12	\$576,000
General and Survey and Coring Vessels Mobilization	LS	\$28,900	1	\$28,900
Pre-Design Investigation - Chemical, Waste Characterization, Geological Sample Collection RM0 to RM1.7 Channel	Core	\$1,250	609	\$761,250
Pre-Design Investigation - Chemical, Waste Characterization, Geological Sample Collection RM1.7 to RM8.3 and RM0 - RM1.7 Shoals	Core	\$250	4,869	\$1,217,250
Pre-Design Investigation - Geotechnical Sample Collection	Boring	\$9,750	77	\$750,750
Pre-Design Investigation - Chemical Analysis	Sample	\$1,560	19,479	\$30,387,240
Pre-Design Investigation - Waste Characterization Analysis	Sample	\$1,280	7,755	\$9,926,400
Pre-Design Investigation - Geological Analysis	Sample	\$280	7,106	\$1,989,680
Pre-Design Investigation - Geotechnical Analysis	Sample	\$1,240	231	\$286,440
Biological Monitoring Baseline Studies	LS	\$2,800,000	1	\$2,800,000
Pore Water Evaluation	Sample	\$1,040	548	\$569,920
Sub-bottom Geophysics and Bathymetric Survey	Day	\$8,200	9	\$73,800
Video Survey for Debris Identification	Day	\$8,200	9	\$73,800
Habitat Survey (in river)	LS	\$100,000	1	\$100,000
Cultural Survey (in river)	LS	\$540,000	1	\$540,000
Fish Spawning Study	LS	\$50,000	1	\$50,000
Borrow Site Pre-Screening	Sample	\$3,000	300	\$900,000
Borrow Material Characterization	Sample	\$2,620	354	\$927,480
Cap Erosion Modeling for Armor Placement Design	LS	\$18,000	1	\$18,000
<i>Total Pre-Construction Activities</i>				<i>\$91,051,910</i>
<i>Present Value of Total Pre-Construction Activities</i>				<i>\$74,438,900</i>
<i>Contingency</i>				<i>\$18,609,700</i>
<i>Present Value of Total Pre-Construction Activities + Contingency</i>				<i>\$93,048,600</i>

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DRILLING, DREDGING, AND REMEDIATION ACTIVITIES COSTS				
F2. F2. Pre-Construction Activities for DMM (no land acquisition)				
Design	Percentage	6%		\$52,400,000
Regulatory Requirements, Legal, and Community Outreach	Percentage	2%		\$17,470,000
Contractor Work Plans and Submittals	LS	\$119,000	1	\$119,000
Pre-Construction Oversight	Month	\$48,000	3	\$144,000
Upland Sediment Processing Facility Site Investigation - Geotechnical	Boring	\$3,220	63	\$202,860
Upland Sediment Processing Facility Site Investigation - Chemical	Core	\$2,560	32	\$80,640
Topographic Survey - Upland Sediment Processing Facility Site	Acre	\$870	34.5	\$30,015
Habitat Survey (upland sediment processing facility site)	LS	\$42,000	1	\$42,000
Cultural Survey (upland sediment processing facility site)	LS	\$42,000	1	\$42,000
Miscellaneous Tests for DMM Design	LS	\$106,130	1	\$106,130
<i>Total Pre-Construction Activities for DMM (no land acquisition)</i>				<i>\$70,636,645</i>
<i>Present Value of Total Pre-Construction Activities for DMM (no land acquisition)</i>				<i>\$57,726,600</i>
<i>Contingency</i>				<i>\$14,431,700</i>
<i>Present Value of Total Pre-Construction Activities for DMM +Contingency</i>				<i>\$72,158,300</i>
TOTAL PRESENT WORTH COST OF PRE-CONSTRUCTION ACTIVITIES				\$165,206,900

Notes: Based on 2014 costs and 7% discount rate

d. CY = Cubic Yard; DMM = Dredged Material Management; EA = Each; LF = Linear Feet; LS = Lump Sum; SF = Square Feet; SY = Square Yard.